

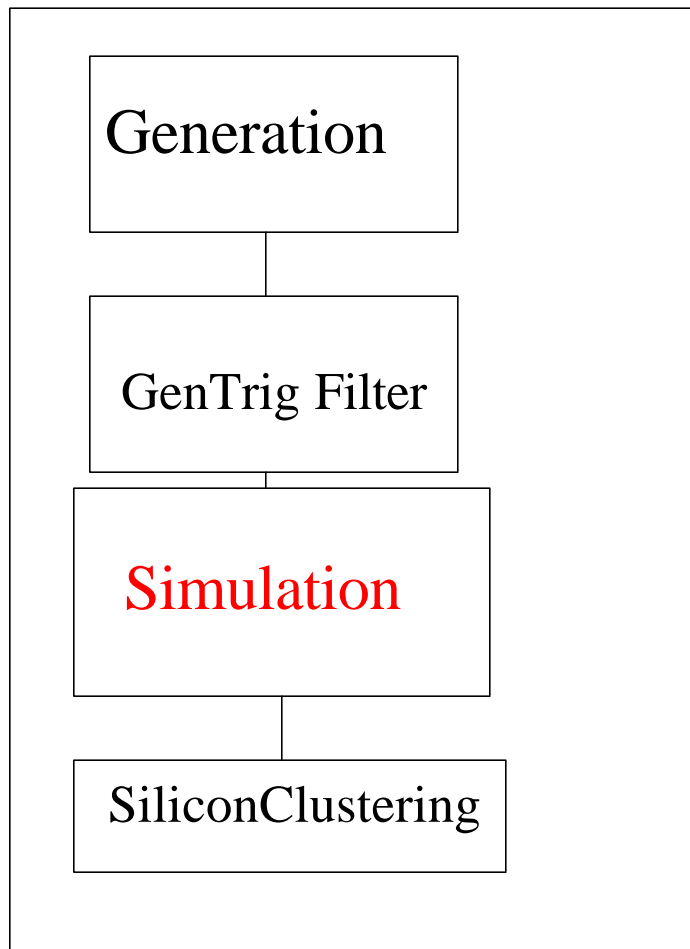
This transparency is from last presentation:

Realistic MC for the B

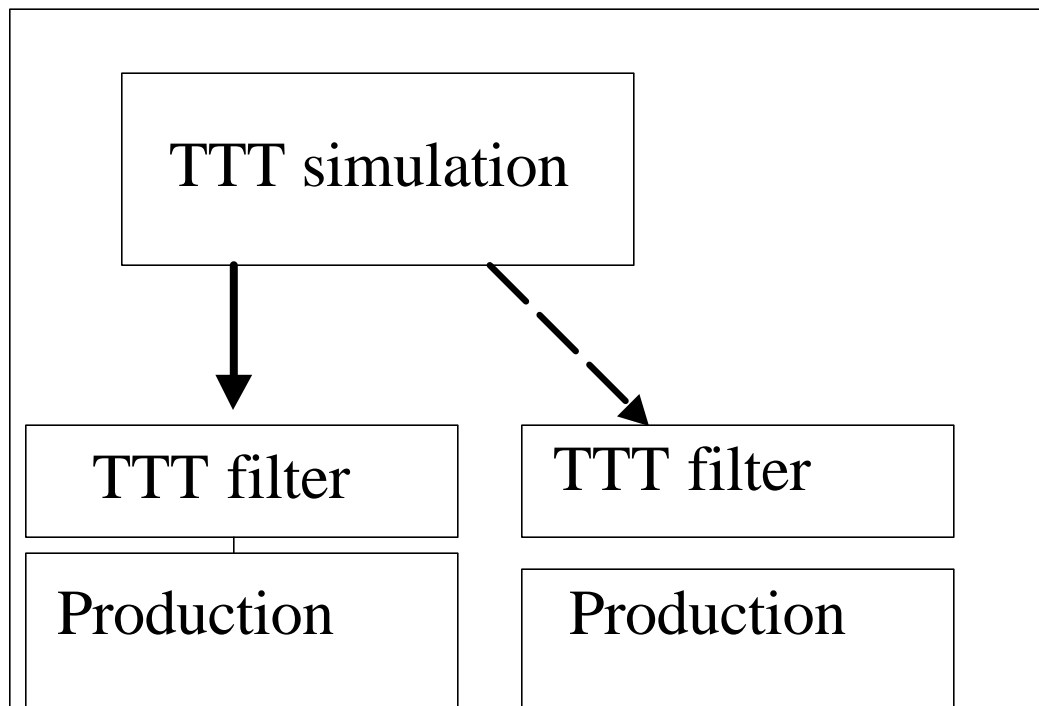
- Corrections and upgrades from previous sample:
 - Silicon noise correctly simulated
 - Displaced vertex using DB and GenPrimVertMods
 - Silicon mis-alignment in Simulation (for svtsim)
 - *Taken care of in 4.9.1preX* ~~Wrong~~ Ray: internal degrees of freedom
 - Ladder (bow, relative tilt) are not simulated but corrections are applied in Production
- In progress:
 - ✓ – Full trigsim (in particular svtsim)
 - ✓ – Event filtering based on trigsim
- Plan:
 - Simulate multiple runs (eg. 150799: 3 pb⁻¹)
 - ~~Simulate multiple runs in the same job, weighted by their luminosity~~
 - Complete validation on MCrun 142110 *In progress*
 - Enter sample in DataFileCatalog
 - Generate l+svt test sample *Waiting for sw*
 - ✓ – Generate cc test sample

Realistic MC for the B

- TrigSim included in runMC
 - #include "XFTSim/XFTSim.hh"
 - #include "XTRPSim/XTRPSimModule.hh"
 - #include "svtsim/svtsimmodule.hh"
 - //SDA for svtsim
 - #include "L1GlobalTrigger/L1GlobalTriggerMaker.hh"
 - #include "L2GlobalTrigger/L2SimModule.hh"
 - //SDA for svtfiler
 - #include "SemiLeptonicB/svtfiler.hh"
 - #include "SemiLeptonicB/SimPrereq.hh"
- Event filtering has low efficiency:
 - 2% on simulated events (on “pi-pi” stream)
 - Simulation takes 38 s/evt → 1 evt/hour on a 700 MHz pentium
- Need to adjust cuts at generator level and at GenTrig level to maximize efficiency and minimize bias.
- Sample of 100k bb with loose cuts is being produced now.
- CC sample produced (15k events)



Job 1



Job 2